



Bigeye

P-1100

- 11 Megapixel sensor
- Up to 60 seconds exposure time
- Outstanding signal/noise ratio

Bigeye P

Low noise CCD camera, Peltier cooling, up to 11 MP

Bigeye P-1100 with ON Semi KAI-11002 runs 1.6 frames per second at 10.8 MP resolution.

The Bigeye is a low noise CCD camera. It satisfies even the highest expectations for excellent image quality. The peltier cooling provides a superior signal-to-noise ratio even with very long exposure times. Bigeye NIR camera versions are designed for applications which require sensitivity both in the visible spectrum and the NIR spectrum.

- Sensitive Sony and OnSemi sensors, up to 11 Megapixels
- Peltier cooling for long exposure times
- Superior signal/noise ratio
- Robust metal housing for industrial use
- GigE Vision

Specifications

Bigeye P-1100	
Interface	IEEE 802.3 1000baseT
Resolution	4024 (H) × 2680 (V)
Sensor	ON Semi KAI-11002
Sensor type	CCD Progressive
Sensor size	Type 35 mm

Bigeye P-1100

Pixel size 9 μm \times 9 μm

Lens mount (default) F-Mount

Max. frame rate at full resolution 1.6 fps

ADC 14 Bit

Output

Bit depth 12 Bit

General purpose inputs/outputs (GPIOs)

Operating conditions/dimensions

Operating temperature 0 °C to +40 °C

Power requirements (DC) 12 V

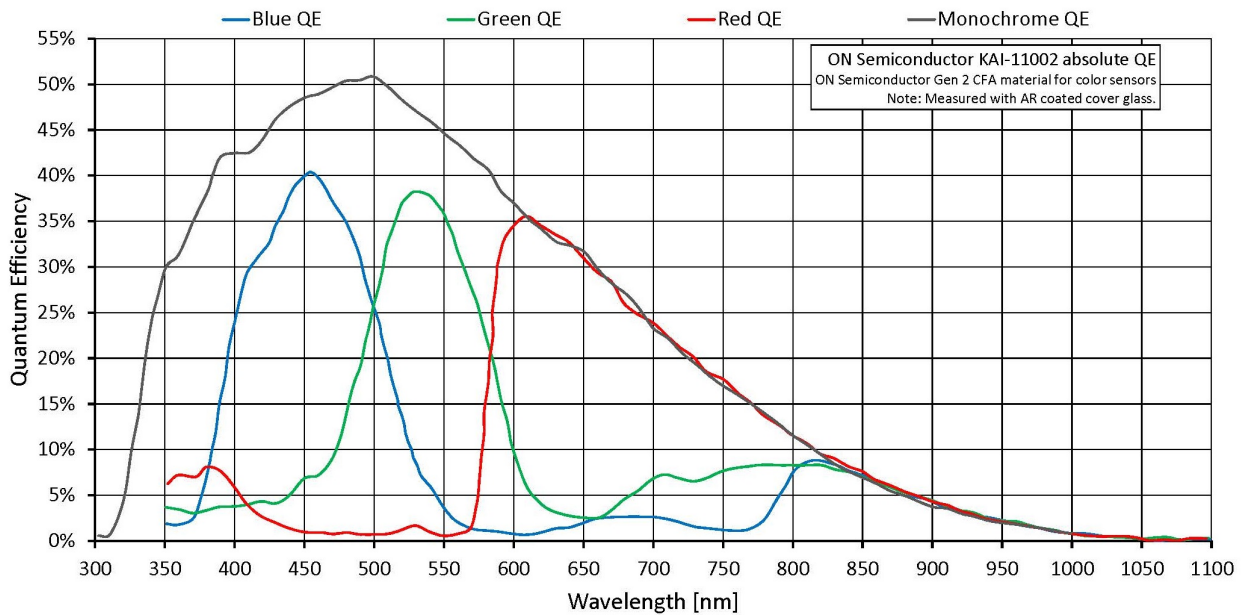
Power consumption 36 W @ 12 VDC

Mass 1390 g

Body dimensions (L \times W \times H in mm) 143 \times 90 \times 99 (including connectors)

Regulations CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

Quantum efficiency



Features

- Binning (1 x 2)
- Gain (6 dB)
- Exposure time 1 ms – 60 seconds
- Background correction
- Continuous mode (image acquisition with maximum frame rate)
- Image on demand mode (triggered image acquisition)

In combination with Allied Vision's AcquireControl software, extensive image analysis functions are available:

- BCG LUT (brightness, contrast, gamma)
- Auto contrast
- Auto brightness
- Analyze multiple regions (rectangular, circle) within the image
- Real-time statistics and histogram display

Applications

The Bigeye P-1100B/C is the perfect choice for image acquisition with high resolution and low noise. Exposure times from 1 ms up to 60 seconds qualify this camera for a variety of applications. Short exposure times with low trigger latency ensure sharp images of moving objects. Long exposure times with the cooled sensor produce images with outstanding low noise.

- High resolution, low noise image acquisition of still and moving objects
- Low noise images with long exposure times (cooled sensor)
- Scientific imaging
- Medical imaging